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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/642,337	08/18/2003		Kia Silverbrook	ZF159US	1933
24011	7590	03/24/2004		EXAM	INER
SILVERBE 393 DARLII		ESEARCH PTY	TRAN	LYT	
BALMAIN,		EI		ART UNIT	PAPER NUMBER
AUSTRALÍA				2853	
				DATE MAIL ED. 02/04/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/642,337	SILVERBROOK, KIA
Office Action Summary	Examiner	Art Unit
	Ly T TRAN	2853
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONET	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☑ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	·
Disposition of Claims		
 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplished any accomplished any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage

Attachment(s)

1) 🔼 Notice of References Cited (PTO-89	92))
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

4)	Interview Summary (PTO-413)
	Paper No(s)/Mail Date.

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____.

Art Unit: 2853

DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

1. Claims 1-6, 8-13 and 15 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-4 and 6-10 of U.S. Patent No. 6,634,735 in view of Irizawa et al. (USPN 6,543,869).

Claims 1-4 and 6-10 of USPN 6,634,735 discloses the claimed invention except for tuning the duration of the pulses in accordance with a composition of the ink.

Irizawa et al. teaches tuning the duration of the pulses in accordance with a composition of the ink (abstract).

It would have been obvious to one having ordinary skill in the art at the invention was made to tune a duration of the pulses in accordance with a composition of the ink as taught by Irizawa et al. The motivation of doing so is to perform optimal ejection for all kinds of the inks under the same head diving condition.

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2. Claims 7 and 14 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,634,735 in view of Irizawa et al. (USPN 6,543,869) as applied to claims 1 and 9 above, further in view of Takahashi (USPN 6,109,716).

The combination of U.S. Patent No. 6,634,735 and Irizawa et al. discloses the claimed invention except for the chip for storing temperature and the step of tuning the duration of energy pulses to compensate for changes in viscosity of the ink.

Takahashi teaches the chip for storing temperature (Fig.8) and the step of tuning the duration of energy pulses to compensate for changes in viscosity of the ink (Abstract, Column 9: line 1-13).

It would have been obvious to one having ordinary skill in the art at the time the invention was made as modify to store the temperature and tune the duration of energy pulses to compensate for changes in viscosity of the ink as taught by Takahashi. The motivation of doing so is prevent ink droplet ejection from becoming unstable.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen D. Meier Primary Examiner

March 2, 2004